



July 7, 2017

Reference No. 003250

Mr. David Linnear
United States Environmental Protection Agency
Region V, Mail Code (SR-6J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Dear Mr. Linnear:

**Re: Progress Report No. 179: April through June 2017
Remedial Design/Remedial Action
Pristine, Inc. Site, Reading, Ohio**

Pursuant to Section XI of the Consent Decree for the United States of America vs. American Greetings Corporation et al. – Civil Action C-89-837, which became effective November 23, 1990, this report is submitted as the quarterly progress report for the months of April through June 2017.

1. Activities Completed During the Reporting Period

1.1 Site Activities

- 1 Continued sampling activities related to the operation and maintenance of the 150 and 300 gpm treatment systems
2. The ISVE dewatering system was deactivated on April 1, 2017.
3. Select monitoring wells (6) and piezometers (5) were re-developed on April 19 and April 20, 2017. The monitoring wells and piezometers were redeveloped to minimize drawdown during the scheduled annual groundwater sampling event
4. On May 8, 2017, a hydraulic monitoring event at the Pristine monitoring wells was conducted.
5. The annual maintenance shutdown was conducted between May 15 and May 21, 2017.
- 6 Extraction well EW1 was sampled on May 15, 2017.
- 7 The total volume of treated water discharged to Mill Creek as of July 1, 2017 was approximately 1,783,088,821 gallons. The total volume of treated water discharged to Mill Creek during April through June 2017 was approximately 4,533,132 gallons (representing 96.2 percent online time for the 150 gpm system) The 300 gpm groundwater extraction system was not operated during the second quarter.



1.2 Correspondence

1. The Pristine, Inc. Site quarterly progress report (Report #178) was sent to the U.S.EPA, the Ohio EPA and the Pristine Facility Trust on April 7, 2017.
2. The monthly effluent monitoring report for the treatment facility for March 2017 was sent to the U.S.EPA, the Ohio EPA and the Pristine Facility Trust on April 7, 2017.
3. The Round 47 Sampling Report was sent to the U.S.EPA, the Ohio EPA and the Pristine Facility Trust on April 12, 2017
4. The MNA Pilot Program Data Evaluation Report and responses to the comments contained in the U.S.EPA letter dated January 27, 2017 were sent to the U.S.EPA, the Ohio EPA and the Pristine Facility Trust on April 24, 2017.
5. The monthly effluent monitoring report for the treatment facility for April 2017 was sent to the U.S.EPA, the Ohio EPA, and the Pristine Facility Trust on May 11, 2017
6. The monthly effluent monitoring report for the treatment facility for May 2017 was sent to the U.S.EPA, the Ohio EPA, and the Pristine Facility Trust on June 8, 2017.

2. Activities Scheduled for Next Reporting Period

1. Continue extraction/treatment system operations.
2. Complete the Round 48 groundwater sampling event.
3. Complete a quarterly hydraulic monitoring event of the lower aquifer monitoring wells

3. List of Attachments

- | | |
|---------------|--|
| Attachment 1 | May 8, 2017 Water Levels and Summary of Average Extraction Well Pumping Rates. |
| Attachment 2: | Summary of Treatment System Analytical Results |
| Attachment 3. | Summary of Operation and Maintenance Monitoring. |
| Attachment 4: | Summary of Groundwater and ISVE Treatment System Downtime |



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in cursive script that reads 'Henry Cooke'.

Henry Cooke

A handwritten signature in cursive script that reads 'Ashley P. Valentine'.

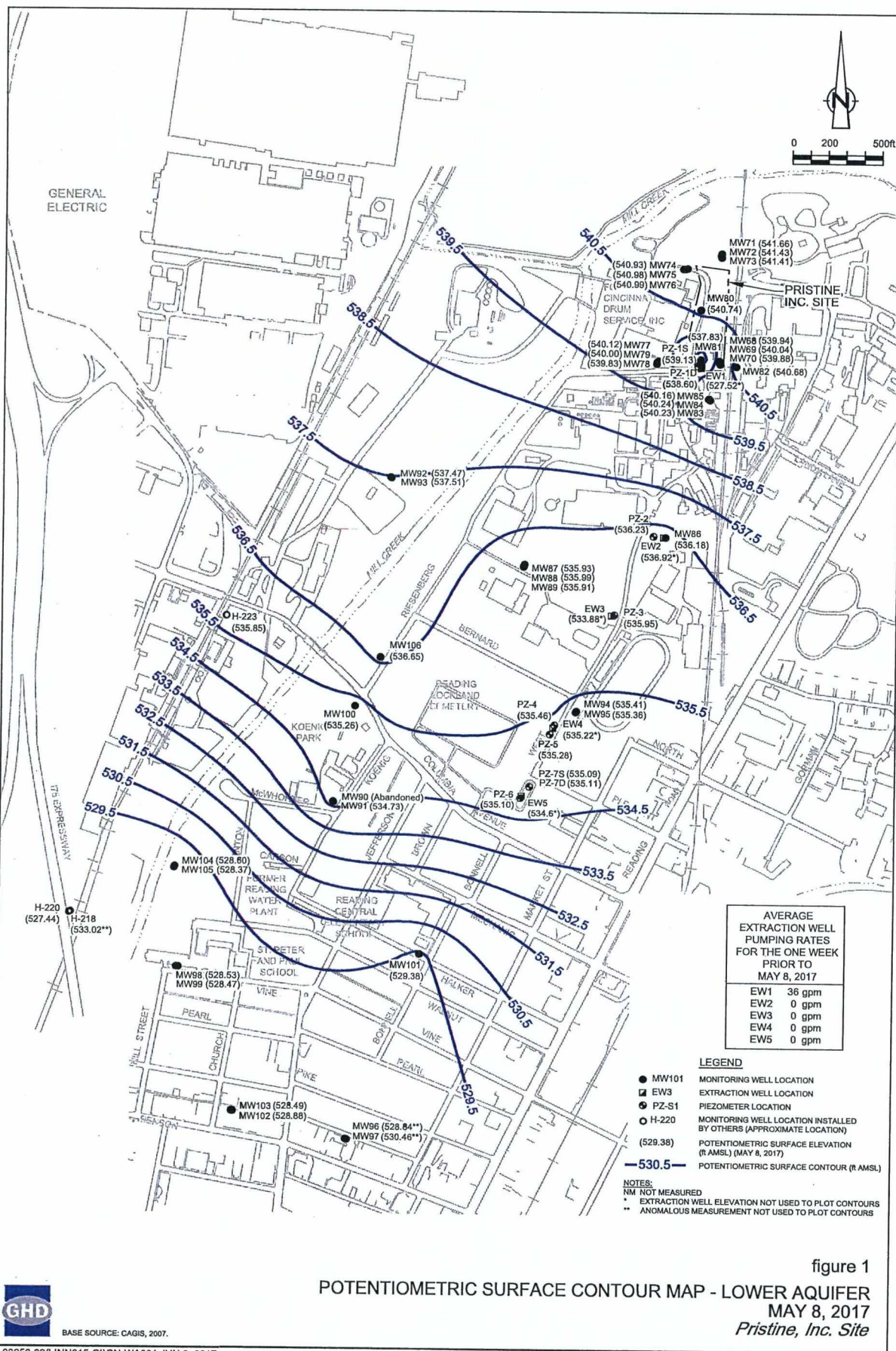
Ashley Valentine

HC/po/15
Encl

cc: Scott Glum (Ohio EPA)
Ron Pitzer (Pristine Trust)
Martha Farr (Pristine Trust)
Peggy Dewan (Pristine Trust)
Steve Haughey (Frost Brown Todd LLC)
Betsy DuSold (Eli Lilly & Company)
Tom Morris (IBM)
Julian Hayward (GHD)

Attachment 1

Summary of Average Extraction Well Pumping Rates



EW-1
WEEKLY AVERAGE PUMPING RATES
Pristine, Inc Site
Reading, Ohio

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Date	Current Reading ⁽¹⁾	Previous Reading	Difference	Average Pumping Rate (gpm) ⁽²⁾
1/2/2009	86,411,000	86,035,000	376,000	37
1/9/2009	86,785,000	86,411,000	374,000	37
1/16/2009	87,163,000	86,785,000	378,000	38
1/23/2009	87,543,000	87,163,000	380,000	38
1/30/2009	87,924,000	87,543,000	381,000	38
2/6/2009	88,304,000	87,924,000	380,000	38
2/13/2009	88,700,000	88,304,000	396,000	39
2/20/2009	89,043,000	88,700,000	343,000	34
2/27/2009	89,415,000	89,043,000	372,000	37
3/6/2009	89,788,000	89,415,000	373,000	37
3/13/2009	90,131,000	89,788,000	343,000	34
3/20/2009	90,495,000	90,131,000	364,000	36
3/27/2009	90,871,000	90,495,000	376,000	37
4/3/2009	91,251,000	90,871,000	380,000	38
4/10/2009	91,627,000	91,251,000	376,000	37
4/17/2009	92,001,000	91,627,000	374,000	37
4/24/2009	92,191,000	92,001,000	190,000	19
5/1/2009	92,273,000	92,191,000	82,000	8
5/8/2009	92,476,000	92,273,000	203,000	20
5/15/2009	92,807,000	92,476,000	331,000	33
5/22/2009	93,183,000	92,807,000	376,000	37
5/29/2009	93,515,000	93,183,000	332,000	33
6/5/2009	93,886,000	93,515,000	371,000	37
6/12/2009	94,256,000	93,886,000	370,000	37
6/19/2009	94,630,000	94,256,000	374,000	37
6/26/2009	95,008,000	94,630,000	378,000	38
7/3/2009	95,386,000	95,008,000	378,000	38
7/10/2009	95,761,000	95,386,000	375,000	37
7/17/2009	96,141,000	95,761,000	380,000	38
7/24/2009	96,519,000	96,141,000	378,000	38
7/31/2009	96,897,000	96,519,000	378,000	38
8/7/2009	97,275,000	96,897,000	378,000	38
8/14/2009	97,631,000	97,275,000	356,000	35
8/21/2009	98,002,000	97,631,000	371,000	37
8/28/2009	98,384,000	98,002,000	382,000	38
9/4/2009	98,754,000	98,384,000	370,000	37
9/11/2009	99,133,000	98,754,000	379,000	38
9/18/2009	99,513,000	99,133,000	380,000	38
9/25/2009	99,891,000	99,513,000	378,000	38
10/2/2009	100,266,000	99,891,000	375,000	37
10/9/2009	100,646,000	100,266,000	380,000	38
10/16/2009	101,025,000	100,646,000	379,000	38
10/23/2009	101,407,000	101,025,000	382,000	38
10/30/2009	101,785,000	101,407,000	378,000	38
11/6/2009	102,147,000	101,785,000	362,000	36
11/13/2009	102,526,000	102,147,000	379,000	38
11/20/2009	102,902,000	102,526,000	376,000	37
11/27/2009	103,281,000	102,902,000	379,000	38
12/4/2009	103,662,000	103,281,000	381,000	38
12/11/2009	104,022,000	103,662,000	360,000	36
12/18/2009	104,377,000	104,022,000	355,000	35
12/25/2009	104,751,000	104,377,000	374,000	37

EW-1
WEEKLY AVERAGE PUMPING RATES
Prstine, Inc Site
Reading, Ohio

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<u>Date</u>	<u>Current Reading⁽¹⁾</u>	<u>Previous Reading</u>	<u>Difference</u>	<u>Average Pumping Rate (gpm)⁽²⁾</u>
1/1/2010	105,125,000	104,751,000	374,000	37
1/8/2010	105,486,000	105,125,000	361,000	36
1/15/2010	104,706,000	105,486,000	-780,000	-77
1/22/2010	105,094,000	104,706,000	388,000	38
1/29/2010	105,483,000	105,094,000	389,000	39
2/5/2010	105,863,000	105,483,000	380,000	38
2/12/2010	106,247,000	105,863,000	384,000	38
2/19/2010	106,634,000	106,247,000	387,000	38
2/26/2010	107,006,000	106,634,000	372,000	37
3/5/2010	107,386,000	107,006,000	380,000	38
3/12/2010	107,774,000	107,386,000	388,000	38
3/19/2010	108,160,000	107,774,000	386,000	38
3/26/2010	108,535,000	108,160,000	375,000	37
4/2/2010	108,837,000	108,535,000	302,000	30
4/9/2010	109,228,000	108,837,000	391,000	39
4/16/2010	109,617,000	109,228,000	389,000	39
4/23/2010	109,804,000	109,617,000	187,000	19
4/30/2010	109,807,000	109,804,000	3,000	0
5/7/2010	110,008,000	109,807,000	201,000	20
5/14/2010	110,388,000	110,008,000	380,000	38
5/21/2010	110,768,000	110,388,000	380,000	38
5/28/2010	111,121,000	110,768,000	353,000	35
6/4/2010	111,502,000	111,121,000	381,000	38
6/11/2010	111,882,000	111,502,000	380,000	38
6/18/2010	112,258,000	111,882,000	376,000	37
6/25/2010	112,613,000	112,258,000	355,000	35
7/2/2010	112,937,000	112,613,000	324,000	32
7/9/2010	113,317,000	112,937,000	380,000	38
7/16/2010	113,690,000	113,317,000	373,000	37
7/23/2010	114,070,000	113,690,000	380,000	38
7/30/2010	114,440,000	114,070,000	370,000	37
8/6/2010	114,819,000	114,440,000	379,000	38
8/13/2010	115,200,000	114,819,000	381,000	38
8/20/2010	115,585,000	115,200,000	385,000	38
8/27/2010	115,972,000	115,585,000	387,000	38
9/3/2010	116,357,000	115,972,000	385,000	38
9/10/2010	116,739,000	116,357,000	382,000	38
9/17/2010	117,113,000	116,739,000	374,000	37
9/24/2010	117,488,000	117,113,000	375,000	37
10/1/2010	117,878,000	117,488,000	390,000	39
10/8/2010	118,247,000	117,878,000	369,000	37
10/15/2010	118,612,000	118,247,000	365,000	36
10/22/2010	118,908,000	118,612,000	296,000	29
10/29/2010	119,281,000	118,908,000	373,000	37
11/5/2010	119,607,000	119,281,000	326,000	32
11/12/2010	119,947,000	119,607,000	340,000	34
11/19/2010	120,299,000	119,947,000	352,000	35
11/26/2010	120,663,000	120,299,000	364,000	36
12/3/2010	121,029,000	120,663,000	366,000	36
12/10/2010	121,428,000	121,029,000	399,000	40
12/17/2010	121,781,000	121,428,000	353,000	35
12/24/2010	122,163,000	121,781,000	382,000	38
12/31/2010	122,524,000	122,163,000	361,000	36

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WEEKLY AVERAGE PUMPING RATES
Pristine, Inc Site
Reading, Ohio

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<u>Date</u>	<u>Current Reading⁽¹⁾</u>	<u>Previous Reading</u>	<u>Difference</u>	<u>Average Pumping Rate (gpm)⁽²⁾</u>
1/7/2011	122,884,000	122,524,000	360,000	36
1/14/2011	123,145,000	122,884,000	261,000	26
1/21/2011	123,534,000	123,145,000	389,000	39
1/28/2011	123,911,000	123,534,000	377,000	37
2/4/2011	124,279,000	123,911,000	368,000	37
2/11/2011	124,639,000	124,279,000	360,000	36
2/18/2011	124,995,000	124,639,000	356,000	35
2/25/2011	125,336,000	124,995,000	341,000	34
3/4/2011	125,687,000	125,336,000	351,000	35
3/11/2011	125,909,000	125,687,000	222,000	22
3/18/2011	126,274,000	125,909,000	365,000	36
3/25/2011	126,656,000	126,274,000	382,000	38
4/1/2011	127,043,000	126,656,000	387,000	38
4/8/2011	127,410,000	127,043,000	367,000	36
4/15/2011	127,792,000	127,410,000	382,000	38
4/22/2011	128,171,000	127,792,000	379,000	38
4/29/2011	128,527,000	128,171,000	356,000	35
5/6/2011	128,910,000	128,527,000	383,000	38
5/13/2011	129,285,000	128,910,000	375,000	37
5/20/2011	129,462,000	129,285,000	177,000	18
5/27/2011	129,467,000	129,462,000	5,000	0
6/3/2011	129,608,000	129,467,000	141,000	14
6/10/2011	130,002,000	129,608,000	394,000	39
6/17/2011	130,405,000	130,002,000	403,000	40
6/24/2011	130,801,000	130,405,000	396,000	39
7/1/2011	131,200,000	130,801,000	399,000	40
7/8/2011	NA	131,200,000	NA	NA
7/15/2011	NA	NA	NA	NA
7/22/2011	NA	NA	NA	NA
7/29/2011	132,744,000	NA	NA	NA
8/5/2011	133,121,000	132,744,000	377,000	37
8/12/2011	133,488,000	133,121,000	367,000	36
8/19/2011	133,845,000	133,488,000	357,000	35
8/26/2011	134,217,000	133,845,000	372,000	37
9/2/2011	134,565,000	134,217,000	348,000	35
9/9/2011	134,931,000	134,565,000	366,000	36
9/16/2011	135,310,000	134,931,000	379,000	38
9/23/2011	135,687,000	135,310,000	377,000	37
9/30/2011	136,027,000	135,687,000	340,000	34
10/7/2011	136,392,000	136,027,000	365,000	36
10/14/2011	136,758,000	136,392,000	366,000	36
10/21/2011	137,120,000	136,758,000	362,000	36
10/28/2011	137,483,000	137,120,000	363,000	36
11/4/2011	137,841,000	137,483,000	358,000	36
11/11/2011	138,205,000	137,841,000	364,000	36
11/18/2011	138,565,000	138,205,000	360,000	36
11/25/2011	138,913,000	138,565,000	348,000	35
12/2/2011	139,270,000	138,913,000	357,000	35
12/9/2011	139,618,000	139,270,000	348,000	35
12/16/2011	139,968,000	139,618,000	350,000	35
12/23/2011	140,291,000	139,968,000	323,000	32
12/30/2011	140,606,000	140,291,000	315,000	31

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WEEKLY AVERAGE PUMPING RATES
Pnistine, Inc Site
Reading, Ohio

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<u>Date</u>	<u>Current Reading⁽¹⁾</u>	<u>Previous Reading</u>	<u>Difference</u>	<u>Average Pumping Rate (gpm)⁽²⁾</u>
1/6/2012	140,937,000	140,606,000	331,000	33
1/13/2012	141,206,000	140,937,000	269,000	27
1/20/2012	141,509,000	141,206,000	303,000	30
1/27/2012	141,694,000	141,509,000	185,000	18
2/3/2012	142,064,000	141,694,000	370,000	37
2/10/2012	142,415,000	142,064,000	351,000	35
2/17/2012	142,762,000	142,415,000	347,000	34
2/24/2012	143,103,000	142,762,000	341,000	34
3/2/2012	143,444,000	143,103,000	341,000	34
3/9/2012	143,782,000	143,444,000	338,000	34
3/16/2012	144,114,000	143,782,000	332,000	33
3/23/2012	144,438,000	144,114,000	324,000	32
3/30/2012	144,767,000	144,438,000	329,000	33
4/6/2012	145,111,000	144,767,000	344,000	34
4/13/2012	145,452,000	145,111,000	341,000	34
4/20/2012	145,621,000	145,452,000	169,000	17
4/27/2012	145,933,000	145,621,000	312,000	31
5/4/2012	146,269,000	145,933,000	336,000	33
5/11/2012	146,584,000	146,269,000	315,000	31
5/18/2012	146,926,000	146,584,000	342,000	34
5/25/2012	147,278,000	146,926,000	352,000	35
6/1/2012	147,631,000	147,278,000	353,000	35
6/8/2012	147,981,000	147,631,000	350,000	35
6/15/2012	148,328,000	147,981,000	347,000	34
6/22/2012	148,678,000	148,328,000	350,000	35
6/29/2012	149,028,000	148,678,000	350,000	35
7/6/2012	149,380,000	149,028,000	352,000	35
7/13/2012	149,735,000	149,380,000	355,000	35
7/20/2012	150,083,000	149,735,000	348,000	35
7/27/2012	150,433,000	150,083,000	350,000	35
8/3/2012	150,781,000	150,433,000	348,000	35
8/10/2012	151,132,000	150,781,000	351,000	35
8/17/2012	151,480,000	151,132,000	348,000	35
8/24/2012	151,828,000	151,480,000	348,000	35
8/31/2012	152,164,000	151,828,000	336,000	33
9/7/2012	152,502,000	152,164,000	338,000	34
9/14/2012	152,845,000	152,502,000	343,000	34
9/21/2012	153,191,000	152,845,000	346,000	34
9/28/2012	153,521,000	153,191,000	330,000	33
10/5/2012	153,864,000	153,521,000	343,000	34
10/12/2012	154,142,000	153,864,000	278,000	28
10/19/2012	154,469,000	154,142,000	327,000	32
10/26/2012	154,812,000	154,469,000	343,000	34
11/2/2012	155,142,000	154,812,000	330,000	33
11/9/2012	155,462,000	155,142,000	320,000	32
11/16/2012	155,766,000	155,462,000	304,000	30
11/23/2012	156,054,000	155,766,000	288,000	29
11/30/2012	156,346,000	156,054,000	292,000	29
12/6/2012	156,588,000	156,346,000	242,000	24
12/13/2012	156,883,000	156,588,000	295,000	29
12/22/2012	157,255,000	156,883,000	372,000	29
12/27/2012	157,465,000	157,255,000	210,000	29

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WEEKLY AVERAGE PUMPING RATES
Pristine, Inc Site
Reading, Ohio

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<u>Date</u>	<u>Current Reading⁽¹⁾</u>	<u>Previous Reading</u>	<u>Difference</u>	<u>Average Pumping Rate (gpm)⁽²⁾</u>
1/3/2013	157,747,000	157,465,000	282,000	28
1/10/2013	158,057,000	157,747,000	310,000	31
1/17/2013	158,345,000	158,057,000	288,000	29
1/24/2013	158,640,000	158,345,000	295,000	29
1/31/2013	158,942,000	158,640,000	302,000	30
2/7/2013	159,274,000	158,942,000	332,000	33
2/14/2013	159,584,000	159,274,000	310,000	31
2/21/2013	159,919,000	159,584,000	335,000	33
2/28/2013	160,251,000	159,919,000	332,000	33
3/7/2013	160,432,000	160,251,000	181,000	18
3/14/2013	160,658,000	160,432,000	226,000	22
3/21/2013	160,967,000	160,658,000	309,000	31
3/28/2013	161,275,000	160,967,000	308,000	31
4/4/2013	161,562,000	161,275,000	287,000	28
4/11/2013	161,829,000	161,562,000	267,000	26
4/18/2013	162,117,000	161,829,000	288,000	29
4/25/2013	162,405,000	162,117,000	288,000	29
5/2/2013	162,585,000	162,405,000	180,000	18
5/9/2013	162,822,000	162,585,000	237,000	24
5/16/2013	163,117,000	162,822,000	295,000	29
5/23/2013	163,424,000	163,117,000	307,000	30
5/30/2013	163,737,000	163,424,000	313,000	31
6/6/2013	164,047,000	163,737,000	310,000	31
6/13/2013	164,350,000	164,047,000	303,000	30
6/20/2013	164,654,000	164,350,000	304,000	30
6/27/2013	164,959,000	164,654,000	305,000	30
7/4/2013	165,259,000	164,959,000	300,000	30
7/11/2013	165,554,000	165,259,000	295,000	29
7/18/2013	165,860,000	165,554,000	306,000	30
7/25/2013	166,166,000	165,860,000	306,000	30
8/1/2013	166,475,000	166,166,000	309,000	31
8/8/2013	166,611,000	166,475,000	136,000	13
8/15/2013	166,790,000	166,611,000	179,000	18
8/22/2013	167,095,000	166,790,000	305,000	30
8/29/2013	167,402,000	167,095,000	307,000	30
9/5/2013	167,617,000	167,402,000	215,000	21
9/12/2013	167,896,000	167,617,000	279,000	28
9/19/2013	168,207,000	167,896,000	311,000	31
9/26/2013	168,517,000	168,207,000	310,000	31
10/3/2013	168,828,000	168,517,000	311,000	31
10/10/2013	169,125,000	168,828,000	297,000	29
10/17/2013	169,434,000	169,125,000	309,000	31
10/24/2013	169,743,000	169,434,000	309,000	31
10/31/2013	170,051,000	169,743,000	308,000	31
11/7/2013	170,346,000	170,051,000	295,000	29
11/14/2013	170,647,000	170,346,000	301,000	30
11/21/2013	170,963,000	170,647,000	316,000	31
11/28/2013	171,225,000	170,963,000	262,000	26
12/5/2013	171,527,000	171,225,000	302,000	30
12/12/2013	171,830,000	171,527,000	303,000	30
12/19/2013	172,136,000	171,830,000	306,000	30
12/26/2013	172,434,000	172,136,000	298,000	30

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WEEKLY AVERAGE PUMPING RATES
Pristine, Inc. Site
Reading, Ohio

<u>Date</u>	<u>Current Reading⁽¹⁾</u>	<u>Previous Reading</u>	<u>Difference</u>	<u>Average Pumping Rate (gpm)⁽²⁾</u>
1/2/2014	172,733,000	172,434,000	299,000	30
1/9/2014	173,033,000	172,733,000	300,000	30
1/16/2014	173,336,000	173,033,000	303,000	30
1/23/2014	173,639,000	173,336,000	303,000	30
1/30/2014	173,947,000	173,639,000	308,000	31
2/6/2014	174,252,000	173,947,000	305,000	30
2/13/2014	174,554,000	174,252,000	302,000	30
2/20/2014	174,859,000	174,554,000	305,000	30
2/27/2014	175,161,000	174,859,000	302,000	30
3/6/2014	175,467,000	175,161,000	306,000	30
3/13/2014	175,771,000	175,467,000	304,000	30
3/20/2014	176,074,000	175,771,000	303,000	30
3/27/2014	176,381,000	176,074,000	307,000	30
4/3/2014	176,686,000	176,381,000	305,000	30
4/10/2014	176,988,000	176,686,000	302,000	30
4/17/2014	177,295,000	176,988,000	307,000	30
4/24/2014	177,604,000	177,295,000	309,000	31
5/1/2014	177,810,000	177,604,000	206,000	20
5/8/2014	177,934,000	177,810,000	124,000	12
5/15/2014	178,232,000	177,934,000	298,000	30
5/22/2014	178,543,000	178,232,000	311,000	31
5/29/2014	178,883,000	178,543,000	340,000	34
6/5/2014	179,217,000	178,883,000	334,000	33
6/12/2014	179,552,000	179,217,000	335,000	33
6/19/2014	179,890,000	179,552,000	338,000	34
6/26/2014	180,225,000	179,890,000	335,000	33
7/3/2014	180,563,000	180,225,000	338,000	34
7/10/2014	180,902,000	180,563,000	339,000	34
7/17/2014	181,238,000	180,902,000	336,000	33
7/24/2014	181,565,000	181,238,000	327,000	32
7/31/2014	181,908,000	181,565,000	343,000	34
8/7/2014	182,254,000	181,908,000	346,000	34
8/14/2014	182,592,000	182,254,000	338,000	34
8/21/2014	182,934,000	182,592,000	342,000	34
8/28/2014	183,275,000	182,934,000	341,000	34
9/4/2014	184,600,000	183,275,000	333,000	33
9/11/2014	184,930,000	184,600,000	330,000	33
9/18/2014	185,238,000	184,930,000	308,000	31
9/25/2014	185,574,000	185,238,000	336,000	33
10/2/2014	185,912,000	185,574,000	338,000	34
10/9/2014	186,248,000	185,912,000	336,000	33
10/16/2014	186,587,000	186,248,000	339,000	34
10/23/2014	186,930,000	186,587,000	343,000	34
10/30/2014	187,270,000	186,930,000	340,000	34
11/6/2014	187,616,000	187,270,000	346,000	34
11/13/2014	187,961,000	187,616,000	345,000	34
11/20/2014	188,305,000	187,961,000	344,000	34
11/27/2014	188,651,000	188,305,000	346,000	34
12/4/2014	188,995,000	188,651,000	344,000	34
12/11/2014	189,337,000	188,995,000	342,000	34
12/18/2014	189,684,000	189,337,000	347,000	34
12/25/2014	190,031,000	189,684,000	347,000	34

EW-1
WEEKLY AVERAGE PUMPING RATES
Pristine, Inc. Site
Reading, Ohio

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<u>Date</u>	<u>Current Reading⁽¹⁾</u>	<u>Previous Reading</u>	<u>Difference</u>	<u>Average Pumping Rate (gpm)⁽²⁾</u>
1/1/2015	190,380,000	190,031,000	349,000	35
1/8/2015	190,723,000	190,380,000	343,000	34
1/15/2015	191,066,000	190,723,000	343,000	34
1/22/2015	191,408,000	191,066,000	342,000	34
1/29/2015	191,750,000	191,408,000	342,000	34
2/5/2015	192,094,000	191,750,000	344,000	34
2/12/2015	192,437,000	192,094,000	343,000	34
2/19/2015	192,782,000	192,437,000	345,000	34
2/26/2015	193,113,000	192,782,000	331,000	33
3/5/2015	193,416,000	193,113,000	303,000	30
3/12/2015	193,740,000	193,416,000	324,000	32
3/19/2015	194,084,000	193,740,000	344,000	34
3/26/2015	194,431,000	194,084,000	347,000	34
4/2/2015	194,780,000	194,431,000	349,000	35
4/9/2015	195,125,000	194,780,000	345,000	34
4/16/2015	195,472,000	195,125,000	347,000	34
4/23/2015	195,817,000	195,472,000	345,000	34
4/30/2015	196,089,000	195,817,000	272,000	27
5/7/2015	196,208,000	196,089,000	119,000	12
5/14/2015	196,556,000	196,208,000	348,000	35
5/21/2015	196,773,000	196,556,000	217,000	22
5/28/2015	196,868,000	196,773,000	95,000	9
6/4/2015	197,218,000	196,868,000	350,000	35
6/11/2015	197,569,000	197,218,000	351,000	35
6/18/2015	197,918,000	197,569,000	349,000	35
6/25/2015	198,265,000	197,918,000	347,000	34
7/2/2015	198,612,000	198,265,000	347,000	34
7/9/2015	198,962,000	198,612,000	350,000	35
7/16/2015	199,305,000	198,962,000	343,000	34
7/23/2015	199,649,000	199,305,000	344,000	34
7/30/2015	199,998,000	199,649,000	349,000	35
8/6/2015	200,357,000	199,998,000	359,000	36
8/13/2015	200,721,000	200,357,000	364,000	36
8/20/2015	201,084,000	200,721,000	363,000	36
8/27/2015	201,445,000	201,084,000	361,000	36
9/3/2015	201,801,000	201,445,000	356,000	35
9/10/2015	202,162,000	201,801,000	361,000	36
9/17/2015	202,523,000	202,162,000	361,000	36
9/24/2015	202,888,000	202,523,000	365,000	36
10/1/2015	203,250,000	202,888,000	362,000	36
10/8/2015	203,618,000	203,250,000	368,000	37
10/15/2015	203,960,000	203,618,000	342,000	34
10/22/2015	204,317,000	203,960,000	357,000	35
10/29/2015	204,659,000	204,317,000	342,000	34
11/5/2015	205,021,000	204,659,000	362,000	36
11/12/2015	205,382,000	205,021,000	361,000	36
11/19/2015	205,725,000	205,382,000	343,000	34
11/26/2015	206,082,000	205,725,000	357,000	35
12/3/2015	206,438,000	206,082,000	356,000	35
12/10/2015	206,794,000	206,438,000	356,000	35
12/17/2015	207,149,000	206,794,000	355,000	35
12/24/2015	207,473,000	207,149,000	324,000	32
12/31/2015	207,823,000	207,473,000	350,000	35

EW-1
WEEKLY AVERAGE PUMPING RATES
Pristine, Inc Site
Reading, Ohio

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Date	Current Reading ⁽¹⁾	Previous Reading	Difference	Average Pumping Rate (gpm) ⁽²⁾
1/7/2016	208,175,000	207,823,000	352,000	35
1/14/2016	208,524,000	208,175,000	349,000	35
1/21/2016	208,879,000	208,524,000	355,000	35
1/28/2016	209,235,000	208,879,000	356,000	35
2/4/2016	209,574,000	209,235,000	339,000	34
2/11/2016	209,931,000	209,574,000	357,000	35
2/18/2016	210,288,000	209,931,000	357,000	35
2/25/2016	210,640,000	210,288,000	352,000	35
3/3/2016	210,995,000	210,640,000	355,000	35
3/10/2016	211,353,000	210,995,000	358,000	36
3/17/2016	211,704,000	211,353,000	351,000	35
3/24/2016	212,061,000	211,704,000	357,000	35
3/31/2016	212,417,000	212,061,000	356,000	35
4/7/2016	212,757,000	212,417,000	340,000	34
4/14/2016	213,108,000	212,757,000	351,000	35
4/21/2016	213,415,000	213,108,000	307,000	30
4/28/2016	213,823,000	213,415,000	408,000	40
5/5/2016	214,182,000	213,823,000	359,000	36
5/12/2016	214,541,000	214,182,000	359,000	36
5/19/2016	214,764,000	214,541,000	223,000	22
5/26/2016	214,942,000	214,764,000	178,000	18
6/2/2016	215,284,000	214,942,000	342,000	34
6/9/2016	215,630,000	215,284,000	346,000	34
6/16/2016	215,978,000	215,630,000	348,000	35
6/23/2016	216,316,000	215,978,000	338,000	34
6/30/2016	216,636,000	216,316,000	320,000	32
7/7/2016	216,973,000	216,636,000	337,000	33
7/14/2016	217,311,000	216,973,000	338,000	34
7/21/2016	217,640,000	217,311,000	329,000	33
7/28/2016	217,974,000	217,640,000	334,000	33
8/4/2016	218,308,000	217,974,000	334,000	33
8/11/2016	218,641,000	218,308,000	333,000	33
8/18/2016	218,962,000	218,641,000	321,000	32
8/25/2016	219,293,000	218,962,000	331,000	33
9/1/2016	219,621,000	219,293,000	328,000	33
9/8/2016	219,945,000	219,621,000	324,000	32
9/15/2016	220,275,000	219,945,000	330,000	33
9/22/2016	220,608,000	220,275,000	333,000	33
9/29/2016	220,940,000	220,608,000	332,000	33
10/6/2016	221,273,000	220,940,000	333,000	33
10/13/2016	221,606,000	221,273,000	333,000	33
10/20/2016	221,935,000	221,606,000	329,000	33
10/27/2016	222,256,000	221,935,000	321,000	32
11/3/2016	222,582,000	222,256,000	326,000	32
11/10/2016	222,911,000	222,582,000	329,000	33
11/17/2016	223,241,000	222,911,000	330,000	33
11/24/2016	223,571,000	223,241,000	330,000	33
12/1/2016	223,898,000	223,571,000	327,000	32
12/8/2016	224,228,000	223,898,000	330,000	33
12/15/2016	224,556,000	224,228,000	328,000	33
12/22/2016	224,871,000	224,556,000	315,000	31
12/29/2016	225,213,000	224,871,000	342,000	34
1/5/2017	225,579,000	225,213,000	366,000	36
1/12/2017	225,946,000	225,579,000	367,000	36
1/19/2017	226,312,000	225,946,000	366,000	36
1/26/2017	226,678,000	226,312,000	366,000	36
2/2/2017	227,041,000	226,678,000	363,000	36
2/9/2017	227,395,000	227,041,000	354,000	35
2/16/2017	227,751,000	227,395,000	356,000	35
2/23/2017	228,114,000	227,751,000	363,000	36
3/2/2017	228,479,000	228,114,000	365,000	36
3/9/2017	228,851,000	228,479,000	372,000	37
3/16/2017	229,221,000	228,851,000	370,000	37
3/23/2017	229,586,000	229,221,000	365,000	36
3/30/2017	229,954,000	229,586,000	368,000	37
4/6/2017	230,317,000	229,954,000	363,000	36
4/13/2017	230,683,000	230,317,000	366,000	36
4/20/2017	231,047,000	230,683,000	364,000	36
4/27/2017	231,416,000	231,047,000	369,000	37
5/4/2017	231,779,000	231,416,000	363,000	36
5/11/2017	232,145,000	231,779,000	366,000	36
5/18/2017	232,316,000	232,145,000	171,000	17
5/25/2017	232,460,000	232,316,000	144,000	14
6/1/2017	232,767,000	232,460,000	307,000	30
6/8/2017	233,158,000	232,767,000	391,000	39
6/15/2017	233,549,000	233,158,000	391,000	39
6/22/2017	233,942,000	233,549,000	393,000	39
6/29/2017	234,334,000	233,942,000	392,000	39
7/6/2017	234,727,000	234,334,000	393,000	39

Notes

- (1) Volumes are based upon instantaneous readings
 - (2) Refer to "Summary of Groundwater and ISVE Downtime" for an explanation of reduced pumping rate
 - (3) Estimated value based on PLC fault on 9/1/14
 - (4) Estimated value based on data loss from Duke energy fuse malfunction on 10/14/15
- NA - not available

Attachment 2

Summary of Treatment System Analytical Results

ATTACHMENT 2

SUMMARY OF ANALYTICAL RESULTS
TREATMENT FACILITY, PRISTINE, INC. SITE, READING, OHIO

	April 2017				May 2017				June 2017			
	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
150 Influent to Treatment Facility												
Sample ID					PW-1070							
Sample Date					5/3/17							
General Inorganics (mg/L)												
Alkalinity, Total (As CaCO ₃)	--	--	--	--	330	--	--	--	--	--	--	--
Hardness	--	--	--	--	520	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	--	--	--	--	1300	--	--	--	--	--	--	--
Total Suspended Solids (TSS)	--	--	--	--	ND (4.0)	--	--	--	--	--	--	--
Metals (mg/L)												
Arsenic	--	--	--	--	ND (0.010)	--	--	--	--	--	--	--
Beryllium	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	--	--	--	--	130	--	--	--	--	--	--	--
Copper	--	--	--	--	ND (0.021)	--	--	--	--	--	--	--
Iron	--	--	--	--	0.34	--	--	--	--	--	--	--
Lead	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	--	--	--	--	46	--	--	--	--	--	--	--
Mercury	--	--	--	--	ND (0.00020)	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	--	--	--	--	--	--	--	--	--	--	--	--
Silver	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	--	--	--	--	ND (0.050)	--	--	--	--	--	--	--
Pesticides and PCBs (ug/L)												
4,4'-DDT	--	--	--	--	--	--	--	--	--	--	--	--
alpha-BHC	--	--	--	--	--	--	--	--	--	--	--	--
beta-BHC	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	--	--	--	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1016 (PCB-1016)	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	--	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	--	--	--	--	--	--	--	--	--	--	--	--
Semi Volatile Organic Compounds (ug/L)												
2,4-Dichlorophenol	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
2,6-Dinitrotoluene	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
2-Methylphenol	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
4-Methylphenol	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Butyl benzylphthalate	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Diethyl phthalate	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Dimethyl phthalate	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Di-n-butylphthalate	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Fluoranthene	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Isophorone	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Pentachlorophenol	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--
Phenol	--	--	--	--	ND (9.5)	--	--	--	--	--	--	--

	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
Volatile Organic Compounds (ug/L)												
1,1,1-Trichloroethane	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
1,1,2-Trichloroethane	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
1,2-Dichlorobenzene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
1,2-Dichloroethane	--	--	--	--	35	--	--	--	--	--	--	--
1,3-Dichlorobenzene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
2-Butanone (Methyl Ethyl Ketone)	--	--	--	--	ND (20)	--	--	--	--	--	--	--
Acetone	--	--	--	--	ND (20)	--	--	--	--	--	--	--
Benzene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
Carbon tetrachloride	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
Chlorobenzene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
Chloroform (Trichloromethane)	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
Ethylbenzene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
Methylene chloride	--	--	--	--	6.3	--	--	--	--	--	--	--
Styrene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
Tetrachloroethene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
Toluene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	--	--	--	--	ND (2.5)	--	--	--	--	--	--	--
Trichloroethene	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
Vinyl chloride	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
Xylene (total)	--	--	--	--	ND (5.0)	--	--	--	--	--	--	--
150 Clarifier Effluent												
Sample ID												
Sample Date												
Metals (mg/L)												
Iron	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	--	--	--	--	--	--	--	--	--	--	--	--
General Inorganics (mg/L)												
Alkalinity, Total (As CaCO3)	--	--	--	--	--	--	--	--	--	--	--	--
Hardness	--	--	--	--	--	--	--	--	--	--	--	--
150 Sand Filter Effluent												
Sample ID												
Sample Date												
Metals (mg/L)												
Iron	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	--	--	--	--	--	--	--	--	--	--	--	--
150 Air Stripper Effluent												
Sample ID												
Sample Date												
Volatile Organic Compounds (ug/L)												
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (Methyl Ethyl Ketone)	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform (Trichloromethane)	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--

[illegible]

Xylene (total)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Attachment 3

Summary of Operational & Maintenance Monitoring

TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Page 1 of 2

Task No.	Program Description	Item/Description	Notes	Date Completed
Task 1	Cap System Maintenance	Inspect security fencing for forced entry or damage * Inspect Site storm water drainage system (swales and perimeter piping) * Inspect Site cover for erosion * Inspect security fence for erosion under chain link fabric	All OK	4/01/17 0940
Task 2	ISVE System Maintenance	Inspect air compressor oil level, noise or vibration and drain condensate Inspect pneumatic pump for general operation Clean air compressor filter and external parts of compressor and drive Manually test air compressor relief valve Inspect all pressure gas, valves and meters for leaks and proper operation	All OK	4/01/17 0930
Task 3	Extraction Well Maintenance	Inspect well locks, cover and electrical structures for damage/signs of forced entry Check flow meters to ensure proper operation Check for offsite chamber any indications of leakage.	All OK	4/01/17 0850
Task 4	Treatment System Monitoring	Check air quality in building Conduct general visual inspection of treatment building for unusual conditions (corrosion/leaks/damage) Check supply of sample equipment Check supply of safety equipment, tools and spare parts Check flow meters to ensure proper operation	Small drip at filter housings Will monitor for leaks All others OK	4/01/17 0955

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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#322 P.002/002
2017/04/01 10:48

TABLE 1
WEEKLY OPERATIONAL MAINTENANCE MONITORING
PRIE, INC. SITE - #3250

Task No.	Program Description	Location	Measureme	Method	Reading	Date Completed
Task 5	ISVE System Monitoring	Vapor collection piping (at treatment building)	VOC	CEM	N/A	4/01/17
Task 6	Shallow Groundwater Monitoring	Zone A forcemain (at treatment building)	Flow (cumulmount of water pun	Flow meter	Zone A - 33167451 @ 0843	4/01/17
		Zone B forcemain (at treatment building)	Flow (cumulmount of water pun	Flow meter	Zone B - 7173043 @ 0843	4/01/17
Task 7	Process Vessel Monitoring	Inspect caustic and acid tanks(including p Inspect carbon vessels		All OK		4/01/17 0935
Task 8	Extraction Well Monitoring	Control room	Pumping rat	Flow meter	EW1- 4/1 EW2- off EW3- ↓ EW4- ↓ EW5- ↓	4/01/17 0953
Task 9	ISVE Piping	Zone B	Water Remov	Portable Pump	N/A	4/01/17
Task 10	Hazardous Waste Storage	Filterpress Room	Inspect Re leaks Draw	Visual Inspection	no leaks	4/01/17 0841
Task 11	Testing of Eye Wash Stations (3 total)	Chemical Storage Area Maintenance Room Near Catox Scrubber	Run water thru	Press handle	All OK	4/01/17 0945
Task 12	Check Contents of First Aid Kit	Control Room Maintenance Room	Open & Inspitainer	Visual Inspection	All OK	4/01/17 0950

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Operator Signature

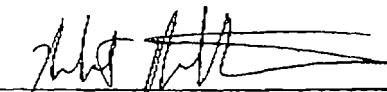

Robert Robertson

TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Page 1 of 1

#3352
P.001/002
Task No.
Task 1

Task No.	Prog. Description/Description	Notes	Date Completed
Task 1	Cap Systemspect security fencing for forced entry or damage Maintenanspect Site storm water drainage system (swales and perimeter piping) Inspect Site cover for erosion Inspect security fencing for erosion under chain link fabric	All OK	4/8/15
Task 2	ISVE Systespect air compressor for oil level, noise or vibration and drain condensate Maintenanspect pneumatic pumps for general operation lean air compressor inlet filter and external parts of compressor and drive annually test air compressor relief valve spect all pressure gauges, valves and meters for leaks and proper operation	N/A	4/8/15
Task 3	Extraction spect well locks, covers and electrical structures for damage/signs of forced entry Maintenancheck flow meters to ensure proper operation heck 5 offsite chambers for any indications of leakage.	All OK	4/8/15
Task 4	Treatmentheck air quality in building Monitorinproduct general visual inspection of treatment building for unusual conditions orrosion/leaks/damage) heck supply of sampling equipment heck supply of safety equipment, tools and spare parts heck flow meters to ensure proper operation	Small drip at filter housings will monitor for repairs. All others OK	4/8/15

Notes:

Inspection frequencies based on field conditions

* This activity is seasonal

2017/04/10-11:42
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HAZARDOUS WASTE TREATMENT MAINTENANCE MONITORING
PR/5 INC. SITE - #3250

Task No.	Program Description	Location	Measurement	Method	Reading	Date Completed
Task 7	ISVE System Monitoring	Vapor collection piping (at treatment building)	VOC	CEM	N/A	4/8/17
Task 8	Shallow Groundwater Monitoring	Zone A forcemain (at treatment building)	Flow (cumulative of water pump)	Flow meter	Zone A - system @ down	4/8/17
		Zone B forcemain (at treatment building)	Flow (cumulative of water pump)	Flow meter	Zone B - ↓ @ ↓	4/8/17
Task 7	Process Vessel Monitoring	Inspect caustic and acid tanks (including pipi) Inspect carbon vessels		All OK		4/8/17 1830
Task 8	Extraction Well Monitoring	Control room	Pumping rate	Flow meter	EW1- 41.0 EW2- off EW3- ↓ EW4- ↓ EW5- ↓	4/8/17 1853
Task 9	ISVE Piping	Zone B	Water Removal	Portable Pump	N/A	4/8/17
Task 10	Hazardous Waste Storage	Filterpress Room	Inspect Rolloff drums	Visual Inspection	no Leaks	4/8/17 1815
Task 11	Testing of Eye Wash Stations (3 total)	Chemical Storage Area Maintenance Room Near Catox Scrubber	Run water thru	Press handle	All OK	4/8/17 1845
Task 12	Check Contents of First Aid Kit	Control Room Maintenance Room	Open & Inspect	Visual Inspection	All OK	4/8/17 1850

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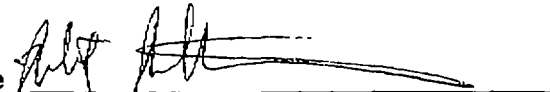

Robert Robertson

TABLE 1
WEEKLY OPERATION AND MAINTENANCE MORING
PRISTINE, INC. SITE - #3250

Task No.	Program Description	Item/Description	Date Completed
Task 1	Cap System Maintenance	Inspect security fencing for forced entry or damage * Inspect Site storm water drainage system (swales and perimeter piping) * Inspect Site cover for erosion * Inspect security fencing for erosion under chain link fabric All OK	4/15/17 1925
Task 2	ISVE System Maintenance	Inspect air compressor for oil level, noise or vibration and drain condensate Inspect pneumatic pumps for general operation Clean air compressor inlet filter and external parts of compressor and drive Manually test air compressor relief valve Inspect all pressure gauges, valves and meters for leaks and proper operation system off	4/15/17
Task 3	Extraction Well Maintenance	Inspect well locks, covers and electrical structures for damage/signs of forced entry Check flow meters to ensure proper operation Check 5 offsite chambers for any indications of leakage.	4/15/17 1905
Task 4	Treatment System Monitoring	Check air quality in building Conduct general visual inspection of treatment building for unusual conditions (corrosion/leaks/damage) Check supply of sampling equipment Check supply of safety equipment, tools and spare parts Check flow meters to ensure proper operation all drip at filter housings 11 others OK	4/15/17 1940

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Page 2 c

#336 P. 002/002

Task No	Program Description	Location	Measurement	Method	Reading	Date Complete
Task 5	ISVE System Monitoring	V collection piping (at tent building)	VOC	CEM	N/A	4/15/11
Task 6	Shallow Groundwater Monitoring	2A forcemain (at tent building)	Flow (cumulative amount of water pumped)	Flow meter	Zone A -	4/15/11
		2B forcemain (at tent building)	Flow (cumulative amount of water pumped)	Flow meter	Zone B - System off	4/15/11
Task 7	Process Vessel Monitoring	1st caustic and acid tanks (including piping) 1st carbon vessels		All OK		4/15/11:20
Task 8	Extraction Well Monitoring	Col room	Pumping rate	Flow meter	EW1- 40.9 EW2- off EW3- EW4- ↓ EW5- ↓	4/15/11:18
Task 9	ISVE Piping	2B	Water Removal	Portable Pump	N/A	4/15/11
Task 10	Hazardous Waste Storage	Press Room	Inspect Rolloff for Leaks Drums	Visual Inspection	No Leaks	4/15/11:19
Task 11	Testing of Eye Wash Stations (3 total)	Cal Storage Area Maintenance Room Natox Scrubber	Run water through unit	Press handle	All OK	4/15/11:30
Task 12	Check Contents of First Aid Kit	GI Room Maintenance Room	Open & Inspect Container	Visual Inspection	All OK	4/15/11:5

201 / 04 / 15 20:33

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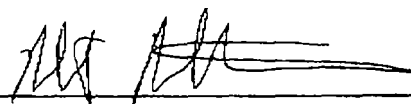

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TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Task No.	Program Description	Item/Description	Notes	Date Completed
Task 1	Cap. System Maintenance	Inspect security fencing for forced entry or damage * Inspect Site storm water drainage system (swales and perimeter piping) * Inspect Site cover for erosion * Inspect security fencing for erosion under chain link fabric	ALL OK	4/22
Task 2	ISVE System Maintenance	Inspect air compressor for oil level, noise or vibration and drain condensate Inspect pneumatic pumps for general operation Clean air compressor inlet filter and external parts of compressor and drive Manually test air compressor relief valve Inspect all pressure gauges, valves and meters for leaks and proper operation	SYSTEM "OFF" CURRENTLY	4/22
Task 3	Extraction Well Maintenance	Inspect well locks, covers and electrical structures for damage/signs of forced entry Check flow meters to ensure proper operation Check 5 offsite chambers for any indications of leakage.	ALL OK	4/22
Task 4	Treatment System Monitoring	Check air quality in building Conduct general visual inspection of treatment building for unusual conditions (corrosion/leaks/damage) Check supply of sampling equipment ← LOW ON NITRILE GLOVES Check supply of safety equipment, tools and spare parts Check flow meters to ensure proper operation	ALL OK	4/22

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Task #	Task Description	Location	Parameter	Method	Reading	Date Completed
Task 5	ISVE System Monitoring	Vapor collection piping (at treatment building)	VOC	CEM	N/A	4/22
Task 6	Shallow Groundwater Monitoring	Zone A forcemain (at treatment building) Zone B forcemain (at treatment building)	Flow (cumulative amount of water pumped) Flow (cumulative amount of water pumped)	Flow meter Flow meter	Zone A 229463 @ 33.56 Batches Zone B - @	2 No Flow 4/22
Task 7	Process Vessel Monitoring	Inspect caustic and acid tanks (including piping) Inspect carbon vessels			All OK ✓	
Task 8	Extraction Well Monitoring	Control room	Pumping rate	Flow meter	EW1- 40.73 gpm EW2- EW3- EW4- EW5-	4/22
Task 9	ISVE Piping	Zone B	Water Removal	Portable Pump	N/A	
Task 10	Hazardous Waste Storage	Filterpress Room	Inspect Rolloff for Leaks	Visual Inspection	1 DRUM (SEALED)	4/22
Task 11	Testing of Eye Wash Stations (3 total)	Chemical Storage Area Maintenance Room Near Catox Scrubber	Run water through unit	Press handle	✓ All OK	4/22
Task 12	Check Contents of First Aid Kit	Control Room Maintenance Room	Open & Inspect Container	Visual Inspection	✓ All OK	4/22

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Operator Signature  4/22/17
1430

TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Page 1 of 2

#337P, 001/002

Task No.	Program Description	Item/Description	Date Completed
Task 1	Cap System Maintenance	Inspect security fencing for forced entry or damage * Inspect Site storm water drainage system (swales and perimeter piping) * Inspect Site cover for erosion * Inspect security fencing for erosion under chain link fabric	4/29/17 1155
Task 2	ISVE System Maintenance	Inspect air compressor for oil level, noise or vibration and drain condensate Inspect pneumatic pumps for general operation Clean air compressor inlet filter and external parts of compressor and drive Manually test air compressor relief valve Inspect all pressure gauges, valves and meters for leaks and proper operation	4/29/17 system off
Task 3	Extraction Well Maintenance	Inspect well locks, covers and electrical structures for damage/signs of forced entry Check flow meters to ensure proper operation Check 5 offsite chambers for any indications of leakage.	4/29/17 All OK 1140
Task 4	Treatment System Monitoring	Check air quality in building Conduct general visual inspection of treatment building for unusual conditions (corrosion/leaks/damage) Check supply of sampling equipment Check supply of safety equipment, tools and spare parts Check flow meters to ensure proper operation	4/29/17 11 drip at filter housings 11 others OK 1210

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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2017/04/23 15:48

TABLE 1

WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

#337, P. 002/002

Task No.	Program Description	Action	Measurement	Method	Reading	Date Complete
Task 5	ISVE System Monitoring	Dr collection piping (treatment building)	VOC	CEM	N/A	4/29/17
Task 6	Shallow Groundwater Monitoring	2 A forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone A -	4/29/17
		2 B forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone B - Dow A	4/29/17
Task 7	Process Vessel Monitoring	Inspect caustic and acid tanks (including piping) Inspect carbon vessels		All OK NO Leaks		4/29/17
Task 8	Extraction Well Monitoring	Control room	Pumping rate	Flow meter	EW1-4.0 EW2-off EW3- EW4- EW5- ↓	4/29/17
Task 9	ISVE Piping	2 B	Water Removal	Portable Pump	N/A	4/29/17
Task 10	Hazardous Waste Storage	Press Room	Inspect Relief for Leaks Drums	Visual Inspection	no Leaks	4/29/17
Task 11	Testing of Eye Wash Stations (3 total)	Chemical Storage Area Maintenance Room or Catex Scrubber	Run water through unit	Press handle	All OK	4/29/17
Task 12	Check Contents of First Aid Kit	Control Room Maintenance Room	Open & Inspect Container	Visual Inspection	All OK	4/29/17

2017/04/29 15:49

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TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Page 1 of 2

Task No.	Program Description	Item/De	Notes	Date Completed
Task 1	Cap System Maintenance	Inspect sncing for forced entry or damage * Inspectn water drainage system (swales and perimeter piping) * Inspectr for erosion * Inspectfencing for erosion under chain link fabric	Some erosion along driveway entrance. All others OK	5/06/17 1420
Task 2	ISVE System Maintenance	Inspect assor for oil level, noise or vibration and drain condensate Inspect p pumps for general operation Clean aisor inlet filter and external parts of compressor and drive Manualhcompressor relief valve Inspect ae gauges, valves and meters for leaks and proper operation	System off	5/06/17
Task 3	Extraction Well Maintenance	Inspect w covers and electrical structures for damage/signs of forced entry Check flc to ensure proper operation Check 5 cmbers for any indications of leakage.	All OK	5/06/17 1400
Task 4	Treatment System Monitoring	Check ain building Conduct isual inspection of treatment building for unusual conditions (corrosiodamage) Check sumpling equipment Check suifety equipment, tools and spare parts Check flc to ensure proper operation	small drip at Filter Housings. All others OK	5/06/17 1440

Notes:

Inspection frequencies may be revised based onditions

* This activity is seasonal dependent

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TABLE 1
WEEKLY OPERATION AND MAINTNCE MONITORING
PRISTINE, INC. SITE50

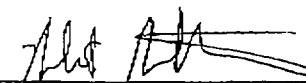
#3397P.002/002

Task No.	Program Description	Location	Measurement	Me	Reading	Date Completed
Task 5	ISVE System Monitoring	Vapor collection piping (at treatment building)	VOC	CE	N/A	5/06/17
Task 6	Shallow Groundwater Monitoring	Zone A forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Floor	Zone A -	5/06/17
		Zone B forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Floor	Zone B system off	5/06/17
Task 7	Process Vessel Monitoring	Inspect caustic and acid tanks(including piping) Inspect carbon vessels		111	OK	5/06/17 1415
Task 8	Extraction Well Monitoring	Control room	Pumping rate	Floor	EW1- 40.1 EW2- off EW3- EW4- EW5- ↓	5/06/17 1438
Task 9	ISVE Piping	Zone B	Water Removal	Potump	N/A	5/06/17
Task 10	Hazardous Waste Storage	Filterpress Room	Inspect Relief for Leaks Drums	Vispection	NO Leaks	5/07/17 1358
Task 11	Testing of Eye Wash Stations (3 total)	Chemical Storage Area Maintenance Room Near Catox Scrubber	Run water through unit	Prele	All OK	5/06/17 1430
Task 12	Check Contents of First Aid Kit	Control Room Maintenance Room	Open & Inspect Container	Vispection	All OK	5/06/17 1435

2017/05/06 15:05

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WEEKLY OPERATION MAINTENANCE MONITORING
PRIST.C. SITE - #3250

Task No.	Program Description	Item/Description	Notes	Date Completed
Task 1	Cap System Maintenance	Inspect security fencing for forced entry or damage * Inspect Site storm water drainage system (swale/meter piping) * Inspect Site cover for erosion * Inspect security fencing for erosion under chain:	Some erosion at driveway entrance All others OK	5/13/17 1330
Task 2	ISVE System Maintenance	Inspect air compressor for oil level, noise or vibration Inspect pneumatic pumps for general operation Clean air compressor inlet filter and external parts Manually test air compressor relief valve Inspect all pressure gauges, valves and meters for proper operation	System off	5/13/17
Task 3	Extraction Well Maintenance	Inspect well locks, covers and electrical structures for signs of forced entry Check flow meters to ensure proper operation Check 5 offsite chambers for any indications of leak	All OK	5/13/17 1305
Task 4	Treatment System Monitoring	Check air quality in building Conduct general visual inspection of treatment building for unusual conditions (corrosion/leaks/damage) Check supply of sampling equipment Check supply of safety equipment, tools and spare parts Check flow meters to ensure proper operation	Small drip at filter housings, will monitor for repairs. All others OK	5/13/17 1350

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

#342 P.002/002

No.	Program Description	Location	Measurement	Method	Ing	Date Completed	
	ISVE System Monitoring	Vapor collection piping (at treatment building)	VOC	CEM	N/A	5/13/17	
Ta	Shallow Groundwater Monitoring	Zone A forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Z -	5/13/17	
		Zone B forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Z - system off @	5/13/17	
Ta	Process Vessel Monitoring	Inspect caustic and acid tanks (including piping) Inspect carbon vessels		NO Leaks All OK		5/13/17	1325
Ta	Extraction Well Monitoring	Control room	Pumping rate	Flow meter	E/D.S E E E E ↓	5/13/17	1348
Ta	ISVE Piping	Zone B	Water Removal	Portable Pump	N/A	5/13/17	
Ta	Hazardous Waste Storage	Filterpress Room	Inspect Relief for Leaks Drums	Visual Inspection	10 Leaks	5/13/17	1257
Ta	Testing of Eye Wash Stations (3 total)	Chemical Storage Area Maintenance Room Near Catox Scrubber	Run water through unit	Press handle	711 OK	5/13/17	1340
Ta	Check Contents of First Aid Kit	Control Room Maintenance Room	Open & Inspect Container	Visual Inspection	711 OK	5/13/17	1345

2017/05/13 15:04

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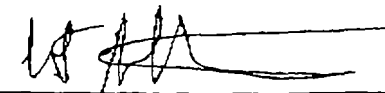

bert robertson

TABLE 1

WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Task No.	Program Description	Item/Description	Notes	Date Completed
Task 1	Cap System Maintenance	Inspect security ring for forced entry or damage * Inspect Site skwater drainage system (swales and perimeter piping) * Inspect Site door erosion * Inspect securitizing for erosion under chain link fabric	some erosion at Entrance gate on sides of driveway All others OK	5/20/17
Task 2	ISVB System Maintenance	Inspect air compressor for oil level, noise or vibration and drain condensate Inspect pneumatic pumps for general operation Clean air compressor inlet filter and external parts of compressor and drive Manually test airpressor relief valve Inspect all pressures, valves and meters for leaks and proper operation	System off	5/20/17
Task 3	Extraction Well Maintenance	Inspect well lockers and electrical structures for damage/signs of forced entry Check flow meters ensure proper operation Check 5 offsite chers for any indications of leakage.	System off for annual maint.	5/20/17
Task 4	Treatment System Monitoring	Check air quality building Conduct general inspection of treatment building for unusual conditions (corrosion/leaks, age) Check supply of sling equipment Check supply of y equipment, tools and spare parts Check flow meters ensure proper operation	System off for Annual Maint.	5/20/17

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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TABLE 1

Page

WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Task No.	Program Description	Location	Measurement	Method	Reading	Date Completed
Task 5	ISVE System Monitoring	Vaplelection piping (at treatment building)	VOC	CEM	N/A	5/20/11
Task 6	Shallow Groundwater Monitoring	Zonorcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone A -	5/20/11
		Zonorcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone B - System off	5/20/11
Task 7	Process Vessel Monitoring	Insipaustic and acid tanks (including piping) Insparbon vessels		All OK no Leaks		5/20/11
Task 8	Extraction Well Monitoring	Conroom	Pumping rate	Flow meter	EW1- off EW2- EW3- EW4- EW5- ↓	5/20/11
Task 9	ISVE Piping	Zon	Water Removal	Portable Pump	N/A	5/20/11
Task 10	Hazardous Waste Storage	Filtes Room	Inspect Roll off for Leaks Drums	Visual Inspection	no Leaks	5/20/11
Task 11	Testing of Eye Wash Stations (3 total)	Chem Storage Area Maince Room Ncarx Scrubber	Run water through unit	Press handle	All OK	5/20/11
Task 12	Check Contents of First Aid Kit	Conroom Maince Room	Open & Inspect Container	Visual Inspection	All OK	5/20/11

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Robert Robertson

Pristine Water Levels Job# 003250

Completed By: A. Schwartz/ R. Robertson

Date Completed: 05/08/17 *A. Shab*

Well I.D.		DTW		Well I.D.		DTW		Well I.D.		DTW		Well I.D.		DTW	
EW1		51.56		MW68		41.37		PZ1S		40.47		PZ1S		40.47	
EW2		23.97		MW69		40.51		PZ1D		40.48		PZ1D		40.48	
EW3		23.85		MW70		40.69		PZ2		26.80		PZ2		26.80	
EW4		25.90		MW71		21.57		PZ3		27.44		PZ3		27.44	
EW5		25.50		MW72		21.78		PZ4		28.11		PZ4		28.11	
GW45		11.08		MW73		21.46		PZ5		29.29		PZ5		29.29	
GW46		14.89		MW74		27.19		PZ6		27.42		PZ6		27.42	
GW47		39.64		MW75		28.05		PZ7D		27.56		PZ7D		27.56	
GW50		16.02		MW76		27.25		PZ7S		27.54		PZ7S		27.54	
GW51		15.74		MW77		20.69									
GW53		10.31		MW78		20.81									
GW54		Broken/dry		MW79		20.68									
GW55		29.28		MW80		42.46									
GW56		35.62		MW81		42.43									
GW59		8.11		MW82		42.16									
GW60A		8.58		MW83		38.58									
GW62		4.22		MW84		39.05									
GW63		33.53		MW85		39.08									
GW64		8.83		MW86		27.69									
GW65		35.44		MW87		27.80									
GW66		7.65		MW88		27.88									
GW108		44.21		MW89		27.75									
GW109		42.85		MW90		Abandoned									
GW-P1		9.33		MW91		13.40									
GW-P2		19.91		MW92		17.73									
GW-P3		21.59		MW93		17.67									
GW-P4		18.48		MW94		28.26									
GW-P5		17.03		MW95		28.30									
GW-P6		25.07		MW96		27.74									
GW-P7		22.66		MW97		26.43									
GW-P8		6.51		MW98		20.99									
GW-P9		19.23		MW99		21.20									
				MW100		13.04									
H-218		25.26		MW101		30.56									
H-219		31.06		MW102		22.91									
H-220		31.15		MW103		23.28									
H-221		17.52		MW104		23.22									
H-222		17.60		MW105		23.12									
H-223		19.75		MW106		13.92									
H-224		25.94		MW107		11.97									

016

TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRIST, INC. SITE - #3250

Task No.	Program Description	Item/Description	Notes	Date Completed
Task 1	Cap System Maintenance	Inspect security fencing for forced entry or damage; * Inspect Site storm water drainage system (swall perimeter piping) * Inspect Site cover for erosion * Inspect security fencing for erosion under chairfabric	Some erosion at gate entrance All others OK	5/27/17 1455
Task 2	ISVE System Maintenance	Inspect air compressor for oil level, noise or vibrant drain condensate Inspect pneumatic pumps for general operation Clean air compressor inlet filter and external partmpressor and drive Manually test air compressor relief valve Inspect all pressure gauges, valves and meters for and proper operation	System Shutdown	5/27/17
Task 3	Extraction Well Maintenance	Inspect well locks, covers and electrical structure damage/signs of forced entry Check flow meters to ensure proper operation Check 5 offsite chambers for any indications of leak	All OK	5/27/17 1435
Task 4	Treatment System Monitoring	Check air quality in building Conduct general visual inspection of treatment bay for unusual conditions (corrosion/leaks/damage) Check supply of sampling equipment Check supply of safety equipment, tools and spars Check flow meters to ensure proper operation	small drip at filter housings will monitor for repairs All others OK	5/27/17 1510

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

2017/05/27 16:24

Task No.	Program Description	Locat	Measurement	Method	Reading	Date Completed
Task 5	ISVE System Monitoring	Vaportion piping (at tre building)	VOC	CEM	N/A	5/27/17
Task 6	Shallow Groundwater Monitoring	Zone main (at treatmilding)	Flow (cumulative amount of water pumped)	Flow meter	Zone A -	5/27/17
		Zone main (at treatmilding)	Flow (cumulative amount of water pumped)	Flow meter	Zone B System Shutdown	5/27/17
Task 7	Process Vessel Monitoring	Inspeic and acid tanks(including piping) Inspeon vessels		All OK NO Leaks		5/27/17 1445
Task 8	Extraction Well Monitoring	Contra	Pumping rate	Flow meter	EW1- 42.3 EW2- off EW3- EW4- ↓ EW5-	5/27/17 1507
Task 9	ISVE Piping	Zone I	Water Removal	Portable Pump	N/A	5/27/17
Task 10	Hazardous Waste Storage	Filterpom	Inspect Roll off for Leaks drums	Visual Inspection	NO Leaks	5/27/17 1430
Task 11	Testing of Eye Wash Stations (3 total)	Chemirage Area Mainte Room Near Ccrubber	Run water through unit	Press handle	All OK	5/27/17 1500
Task 12	Check Contents of First Aid Kit	Contra Mainte Room	Open & Inspect Container	Visual Inspection	All OK	5/27/17 1500

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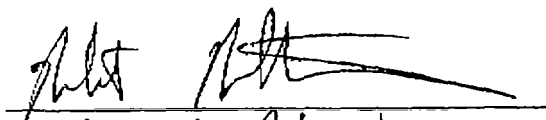

Robert Robertson

TABLE 1
WEEKLY OPERATION/D MAINTENANCE MONITORING
PRIST, INC. SITE - #3250

Page 1 of 2

2017/06/03 15:53

Task No.	Program Description	Item/Description	Notes	Date Completed
Task 1	Cap System Maintenance	Inspect security fencing for forced entry or damage * Inspect Site storm water drainage system (swale perimeter piping) * Inspect Site cover for erosion * Inspect security fencing for erosion under chain fabric	Some erosion along driveway at gate entrance. All others OK	6/03/17 1440
Task 2	ISVE System Maintenance	Inspect air compressor for oil level, noise or vibratnd drain condensate Inspect pneumatic pumps for general operation Clean air compressor inlet filter and external partsmpressor and drive Manually test air compressor relief valve Inspect all pressure gauges, valves and meters for and proper operation	System off	6/03/17
Task 3	Extraction Well Maintenance	Inspect well locks, covers and electrical structures amage/ signs of forced entry Check flow meters to ensure proper operation Check 5 offsite chambers for any indications of lea	All OK	6/03/17 1420
Task 4	Treatment System Monitoring	Check air quality in building Conduct general visual inspection of treatment buz for unusual conditions (corrosion/leaks/damage) Check supply of sampling equipment Check supply of safety equipment, tools and spars Check flow meters to ensure proper operation	Small drip at filter housings will monitor for repairs All others OK	6/03/17 1455

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Task No.	Program Description	Location	Measurement	Method	Reading	Date Completed
Task 5	ISVE System Monitoring	Vapor colping (at treating)	VOC	CEM	N/A	6/03/17
Task 6	Shallow Groundwater Monitoring	Zone A feat treatment	Flow (cumulative amount of water pumped)	Flow meter	Zone A -	6/03/17
		Zone B feat treatment	Flow (cumulative amount of water pumped)	Flow meter	Zone B - System off	6/03/17
Task 7	Process Vessel Monitoring	Inspect caacid tanks(including piping) Inspect caels		All OK NO Leaks		6/03/17 1430
Task 8	Extraction Well Monitoring	Control r	Pumping rate	Flow meter	EW1-42.1 EW2- off EW3- EW4- EW5- ↓	6/03/17 1453
Task 9	ISVE Piping	Zone B	Water Removal	Portable Pump	N/A	6/03/17
Task 10	Hazardous Waste Storage	Filterpres	Inspect Roll off for Leaks Drums	Visual Inspection	no Leaks	6/03/17 1415
Task 11	Testing of Eye Wash Stations (3 total)	Chemical area Maintena Near Cater	Run water through unit	Press handle	All OK	6/03/17 1445
Task 12	Check Contents of First Aid Kit	Control R Maintena	Open & Inspect Container	Visual Inspection	All OK	6/03/17 1450

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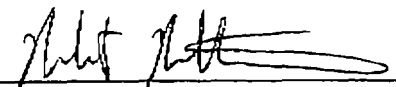

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TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Task No.	Program Description	Item/Description	Notes	Date Completed
Task 1	Cap System Maintenance	Inspect security fencing for forced entry damage * Inspect Site storm water drainagem (swales and perimeter piping) * Inspect Site cover for erosion * Inspect security fencing for eroder chain link fabric	Some erosion along driveway at entrance All others OK	6/10/17 1330
Task 2	ISVE System Maintenance	Inspect air compressor for oil level, or vibration and drain condensate Inspect pneumatic pumps for generation Clean air compressor inlet filter and all parts of compressor and drive Manually test air compressor relief Inspect all pressure gauges, valves meters for leaks and proper operation	System off	6/10/17
Task 3	Extraction Well Maintenance	Inspect well locks, covers and electrical structures for damage/signs of forced entry Check flow meters to ensure proper operation Check 5 offsite chambers for any signs of leakage.	All OK	6/10/17 1315
Task 4	Treatment System Monitoring	Check air quality in building Conduct general visual inspection of treatment building for unusual conditions (corrosion/leaks/damage) Check supply of sampling equipment Check supply of safety equipment, and spare parts Check flow meters to ensure proper operation	Small drip at filter housings All others OK	6/10/17 1348

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Program Description	Location	Measurement	Method	Readings	Date Completed
ISVE System Monitoring	Vapor collection piping (at treatment building)	VOC	CEM	1/A	6/10/17
Shallow Groundwater Monitoring	Zone A forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone A	6/10/17
	Zone B forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone B	6/10/17
Process Vessel Monitoring	Inspect caustic and acid tanks (including piping) Inspect carbon vessels		A11OK		6/10/17
Extraction Well Monitoring	Control room	Pumping rate	Flow meter	EW1- 2 EW2- 2 EW3- EW4- EW5-	6/10/17
ISVE Piping	Zone B	Water Removal	Portable Pump	1/A	6/10/17
Hazardous Waste Storage	Filterpress Room	Inspect for Leaks Drums	Visual Inspection	0 Leaks	6/10/17
Testing of Eye Wash Stations (3 total)	Chemical Storage Area Maintenance Room Near Catox Scrubber	Run water through unit	Press handle	A1 OK	6/10/17
Check Contents of First Aid Kit	Control Room Maintenance Room	Open & Inspect Container	Visual Inspection	A1 OK	6/10/17

1325

1345

1310

1340

1342

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Project Manager
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Robert Robertson

TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Page 1 of 2

#3533P.001/002

Task No.	Pl Desem/Description	Notes	Date Completed
Task 1	Cap Syspect security fencing for forced entry or damage MainteInspect Site storm water drainage system (swales and perimeter piping) Inspect Site cover for erosion Inspect security fencing for erosion under chain link fabric	some erosion at driveway entrance All others OK	17/17
Task 2	ISVE Syspect air compressor for oil level, noise or vibration and drain condensate Mainteinspect pneumatic pumps for general operation lean air compressor inlet filter and external parts of compressor and drive lanually test air compressor relief valve inspect all pressure gauges, valves and meters for leaks and proper operation	System off	17/17
Task 3	Extractispect well locks, covers and electrical structures for damage/signs of forced entry Maintecheck flow meters to ensure proper operation heck 5 offsite chambers for any indications of leakage	All OK	17/17
Task 4	Treatmheck air quality in building Monitoconduct general visual inspection of treatment building for unusual conditions orrosion/leaks/damage) heck supply of sampling equipment heck supply of safety equipment, tools and spare parts heck flow meters to ensure proper operation	small drip at filter housing & will monitor for leaks All others OK	17/17

1450

1435

1505

Notes:

Inspection frequency based on field conditions

* This activity is seasonal

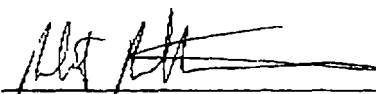
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TABLE 1
WELL OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

#353 P, 002/002
2017/06/17 16:46

Task No.	Program Description	Location	Measurement	Method	Reading	Date Completed
Task 5	ISVE System Monitoring	Vapor collection pt (at treatment buildi	VOC	CEM	N/A	6/17/17
Task 6	Shallow Groundwater Monitoring	Zone A forcemain (treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone A -	6/17/17
		Zone B forcemain (treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone B - system off	6/17/17
Task 7	Process Vessel Monitoring	Inspect caustic and mks (including piping) Inspect carbon vess			All OK no Leaks	6/17/17 1445
Task 8	Extraction Well Monitoring	Control room	Pumping rate	Flow meter	EW1- 417 EW2- off EW3- EW4- EW5- ↓	6/17/17 1502
Task 9	ISVE Piping	Zone B	Water Removal	Portable Pump	N/A	6/17/17
Task 10	Hazardous Waste Storage	Filterpress Room	Inspect drums for Leaks Drums	Visual Inspection	All OK	6/17/17 1428
Task 11	Testing of Eye Wash Stations (3 total)	Chemical Storage A Maintenance Room Near Catox Scrubber	Run water through unit	Press handle	All OK	6/17/17 1455
Task 12	Check Contents of First Aid Kit	Control Room Maintenance Room	Open & Inspect Container	Visual Inspection	All OK	6/17/17 1500

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#356 P. 001/004

TABLE 2
QUARTERLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Task No	Program Description	Item/Description	Notes	Date Completed
Task 1	Cap System Maintenance	Inspect monitoring/piezometers/soil gas probes Ensure all soil gas probes are visible	AIHK	5/05/17
Task 2	SVE System Maintenance	Change compressor air filters quarterly Change dual inline filters for air dryers in May & December Change oil in compressors every 6 months starting at summer shutdown Use only synthetic oil supplied by champion	Syst ff	
Task 3	Extraction Well Maintenance	Check pumps for unusual knocks or vibrations Inspect electrical controls/supply/amperage draw Inspect chambers for water accumulation / line-valve leakage Cycle extraction wells EW2 & EW4 on for 1 hour	Compd	5/05/17
Task 4	Treatment System Monitoring	Check HVAC exhaust fans for proper operation Inspect fire extinguishers and smoke alarms Inspect lighting, electrical systems and power cords Inspect sump pit grating Verify general operations of main building sump pumps Remove and clean in-line strainers	Compl	6/09/17
Task 5	Material Storage	Visually inspect used oil tank to check for spillage and determine whether tank needs to be emptied	Tank w/eed emptied Soon. Call vendor	6/30/17
Task 6	Equipment Inspection	Inspect spill containment material at north mandoor area Inspect broom and shovel at roll off area Confirm presence of air horn at main mandoor and north mandoor	AIHK	6/30/17

2017/07/01 17:31

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TABLE 2
QUARTERLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

Task No.	Program Description	QS#	Location	Measurement	Method	Trench Branch	Notes	to be Completed
Task 7	ISVE System Monitoring		Gas I (SG-66 locations)	Vacuum	Portable Vacuum Gauge		(see attached sheet)	/
		N/A	Gas I	Soil Temperatures	Temperature Probe			
			Air in wells (AIW 1-7)	Pressure	In-line pressure gauge			
			Vapour piping (6)	Vacuum (H ₂ O)	In-line vacuum gauge	VS-1 VS-2 VS-3		
		N/A	Vapour piping (at vacuaders and wells) (6)	Flow rate (FPM)	In-line velocity meter	south: north:		
			Vapour piping (at vacuaders and wells) (6)	VOC	Portable Instrument (PID)	south: north:		
Task 8	Equipment Inspection	N/A	Ladder	Inspect for wear	Visual		All OK	5/17
			External Inspection	Inspect for wear	Visual			
Task 9	Fire Protection	N/A	Portable Extinguisher	Check Pressure Monthly	Visual		OK	6/17
Task 10	Fire Protection	N/A	Sprinkler system	Take Pressure Reading Monthly	In-Line Pressure Gauge		System OK	6/17
				Open Drain Quarterly	Valve			
Task 11	Alarm System	N/A	ADT Control Panel	Test System	Trigger all alarms		All OK	6/17

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Robert Roberson
 Robert Roberson

TABLE 1
WEEKLY OPERATION AND MAINTENANCE
PRISTINE, INC. SIT

#355P, 001/002

Task No.	Program Description	Item/Description	Notes	Date Completed
Task 1	Cap System Maintenance	Inspect security fencing for forced entry or damage * Inspect Site storm water drainage system (swales and perimeter pi * Inspect Site cover for erosion * Inspect security fencing for erosion under chain link fabric	some erosion at gate entrance All others OK	6/24/17 1540
Task 2	ISVE System Maintenance	Inspect air compressor for oil level, noise or vibration and drain conc Inspect pneumatic pumps for general operation Clean air compressor inlet filter and external parts of compressor and Manually test air compressor relief valve Inspect all pressure gauges, valves and meters for leaks and proper c	System off	6/24/17
Task 3	Extraction Well Maintenance	Inspect well locks, covers and electrical structures for damage/signs Check flow meters to ensure proper operation Check 5 offsite chambers for any indications of leakage.	All OK	6/24/17 1515
Task 4	Treatment System Monitoring	Check air quality in building Conduct general visual inspection of treatment building for unusual (corrosion/leaks/damage) Check supply of sampling equipment Check supply of safety equipment, tools and spare parts Check flow meters to ensure proper operation	Small drip at filter housings	6/24/17 1555

Notes:

Inspection frequencies may be revised based on field conditions

* This activity is seasonal dependent

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2017/06/24 17:06

TABLE 1
WEEKLY OPERATION AND MAINTENANCE MONITORING
PRISTINE, INC. SITE - #3250

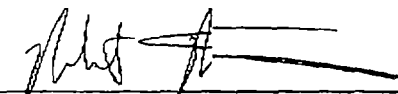
Page 2 of 2

#355 P.002/002

Task No.	PrDescription	Location	Measurement	Method	Reading	Date Completed
Task 5	ISVE Moni	Vapor collection piping (at treatment building)	VOC	CEM	N/A	6/24/17
Task 6	Shallow water Moni	Zone A forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone A - System	6/24/17
		Zone B forcemain (at treatment building)	Flow (cumulative amount of water pumped)	Flow meter	Zone B - ↓	6/24/17
Task 7	Process Moni	Inspect caustic and acid tanks (including piping) Inspect carbon vessels		All OK no Le		6/24/17 1530
Task 8	Extra Well Moni	Control room	Pumping rate	Flow meter	EW1- 41.8 EW2- off EW3- EW4- EW5- ↓	6/24/17 1553
Task 9	ISVE	Zone B	Water Removal	Portable Pump	N/A	6/24/17
Task 10	Hazard Waste Storage	Filterpress Room	Inspect Relief for Leaks Drums	Visual Inspection	no L	6/24/17 1508
Task 11	Testiye Wash Station	Chemical Storage Area Maintenance Room Near Catox Scrubber	Run water through unit	Press handle	All	6/24/17 1545
Task 12	Checkouts of First	Control Room Maintenance Room	Open & Inspect Container	Visual Inspection	All	6/24/17 1550

2017/06/24 17:01
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Robert Kim

Attachment 4

Summary of Groundwater & ISVE Treatment System Downtime

**SUMMARY OF GROUNDWATER AND ISVE DOWNTIME
FOR THE MONTH OF APRIL 2017
PRISTINE, INC. SITE
READING, OHIO**

No significant downtime was reported for April 2017

**SUMMARY OF GROUNDWATER AND ISVE DOWNTIME
FOR THE MONTH OF MAY 2017
PRISTINE, INC. SITE
READING, OHIO**

May 12, 2017	System down upon arrival malfunction of E/A tank level transmitter. Pulled transmitter and cleaned measuring surface. Checked all wire connections. Unit is reading correctly now but will replace unit during shutdown with new unit. After system was online for three hours, the cartridge filter pressure was at 40 psi. Cartridge filter impacted with heavy blackish color material. Replaced cartridge filters. Started working on updating JSA's for the shutdown work.
May 14, 2017	System went down again due to filters being impacted with blackish colored material.
May 15, 2017	Initiated shutdown procedures. Worked on annual shutdown maintenance activities.
May 16, 2017	Set up effluent ISCO. Worked on annual shutdown maintenance activities.
May 17, 2017	Worked on annual shutdown maintenance activities.
May 18, 2017	Worked on annual shutdown maintenance activities.
May 19, 2017	Worked on annual shutdown maintenance activities.
May 20, 2017	Completed weekly O&M. Worked on annual shutdown maintenance activities.
May 21, 2017	Annual shutdown.
May 22, 2017	Initiated startup procedures. Walked around site addressing various leaks. Adjust flow valves to attain proper flows. Completed weekly report. Calibrated pH analyzers/probes. Changed out cartridge filters. Pumped down rain sumps.
May 23, 2017	System went down due to cartridge filters being plugged. Acid addition pump has lost its prime causing calcium carbonate buildup on filters. Re-primed pump. Changed out cartridge filters. Set up effluent ISCO. Adjusted FFT #2 recycle/flow valve.
May 24, 2017	System went down due to EW 1 tripping at MCC disconnect. Reset disconnect. Adjusted flow from EW 1. Developed drip at flange for EW1 flow meter. Tightened bolts to stop leak. Changed out cartridge filters.
May 25, 2017	System went down due to cartridge filters plugging. Changed out cartridge filters. When starting system, A/S transfer pump would not turn. E/A transfer pump has seized up. Disassembled the pump and removed calcium carbonate build up. Acid addition pump lost its prime again when system went down yesterday due to EW 1. Broke down spent cartridge filters and placed in drum.
May 28, 2017	System went down due to EW1 tripping out at MCC disconnect.
May 29, 2017	System went down due to EW1 pump tripping the MCC disconnect. Reset disconnect. Took amp draw readings at disconnect. Pump motor pulling approximately 7.0 amps per leg. Checked operation of acid addition pump upon system restart.
May 31, 2017	System went down due to EW 1 tripping disconnect at MCC disconnect. Reset disconnect. Adjusted trip setting at disconnect to try to address problem. Broke down spent cartridge filters and placed in drum. Started transferring sludge to decant tote that was generated when cleaning tanks during annual shutdown.

**SUMMARY OF GROUNDWATER AND ISVE DOWNTIME
FOR THE MONTH OF JUNE 2017
PRISTINE, INC. SITE
READING, OHIO**

No significant downtime was reported for June 2017